



Dkt. 58044-A/JPW/AJM/AG

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

#17

Applicant : Riccardo Dalla-Favera
Serial No.: 09/724,254 Examiner: K. A. Canella
Filed : November 28, 2000 Group Art Unit: 1642
For : ISOLATION OF FIVE NOVEL GENES CODING FOR NEW Fc
RECEPTORS-TYPE MELANOMA INVOLVED IN THE
PATHOGENESIS OF LYMPHOMA/MYELOMA

1185 Avenue of the Americas
New York, New York 10036
October 28, 2002

Assistant Commissioner for Patents
Washington, D.C. 20231

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Sir:

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INFORMATION DISCLOSURE STATEMENT

In accordance with the duty of disclosure under 37 C.F.R. §1.56, applicant directs the Examiner's attention to the following disclosures, which are listed on Form PTO-1449 (Exhibit A). Copies of the disclosures listed below as items 1-78 are attached hereto as Exhibits 1-78, respectively:

1. Anand, R., Riley, J. H., Butler, R., Smith, J. C., and Markham, A. F., A 3.5 genome equivalent multi access YAC library: construction, characterization, screening and storage, *Nucleic Acids Res.*, (1990) 18, 1951-1956 (Exhibit 1);
2. Avet-Loiseau, H., Andree-Ashley, L. E., Moore, D., Mellerin, M. P., Feusner, J., Bataille, R., and Pallavicini, M. G., Molecular cytogenetic abnormalities in multiple myeloma and plasma cell leukemia measured using comparative genomic hybridization, *Genes Chromosomes Cancer*, (1997) 19, 124-133 (Exhibit 2);

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3. Bakhshi, A., Jensen, J. P., Goldman, P., Wright, J. J., McBride, O. W., Epstein, A. L., and Korsmeyer, S. J., Cloning the chromosomal breakpoint of t(14;18) human lymphomas: clustering around JH on chromosome 14 and near a transcriptional unit on 18, *Cell*, (1985) 41, 899-906 (Exhibit 3);
4. Berger, R., Bernheim, A., Cytogenetics of Burkitt's lymphoma-leukaemia: a review, *IARC Sci. Publ.*, (1985) 60, 65-80 (Exhibit 4);
5. Bergsagel, P. L., Chesi, M., Nardini, E., Brents, L. A., Kirby, S. L., and Kuehl, W. M., Promiscuous translocations into immunoglobulin heavy chain switch regions in multiple myeloma, *Proc. Natl. Acad. Sci. U.S.A.*, (1996) 93, 13931-13936 (Exhibit 5);
6. Bosch, F., Jares, P., Campo, E., Lopez-Guillermo, A., Piris, M. A., Villamor, N., Tassies, D., Jaffe, E. S., Montserrat, E., Rozman, C. et al., PRAD-1/cyclin D1 gene overexpression in chronic lymphoproliferative disorders: a highly specific marker of mantle cell lymphoma, *Blood* (1994) 84, 2726-2732 (Exhibit 6);
7. Callanan, M. B., Le Baccon, P., Mossuz, P., Duley, S., Bastard, C., Hamoudi, R., Dyer, M. J., Klobeck, G., Rimokh, R., Sotto, J. J., and Leroux, D., The IgG Fc receptor, FcgammaRIIB, is a target for deregulation by chromosomal translocation in malignant lymphoma, *Proc. Natl. Acad. Sci. U.S.A.*, (2000) 97, 309-314 (Exhibit 7);

8. Cambier, J. C., Antigen and Fc receptor signaling: the awesome power of the immunoreceptor tyrosine-based activation motif (ITAM), *J. Immunol.*, (1995) 155, 3281-3285 (Exhibit 8);
9. Chesi, M., Bergsagel, P. L., Brents, L. A., Smith, C. M., Gerhard, D. S., and Kuehl, W. M., Dysregulation of cyclin D1 by translocation into an IgH gamma switch region in two multiple myeloma cell lines, *Blood*, (1996) 88, 674-681 (Exhibit 9);
10. Chesi, M., Bergsagel, P. L., Shonukan, O. O., Martelli, M. L., Brents, L. A., Chen, T., Schrock, E., Ried, T., and Kuehl, W. M., Frequent dysregulation of the c-maf proto-oncogene at 16q23 by translocation to an Ig locus in multiple myeloma, *Blood*, (1998) 91, 4457-4463 (Exhibit 10);
11. Chesi, M., Nardini, E., Brents, L. A., Schrock, E., Ried, T., Kuehl, W. M., and Bergsagel, P. L., Frequent translocation t(4;14)(p16.3;q32.3) in multiple myeloma is associated with increased expression and activating mutations of fibroblast growth factor receptor 3, *Nat. Genet.*, (1997) 16, 260-264 (Exhibit 11);
12. Church, D. M., Stotler, C. J., Rutter, J. L., Murrell, J. R., Trofatter, J. A., and Buckler, A. J., Isolation of genes from complex sources of mammalian genomic DNA using exon amplification, *Nat. Genet.*, (1994) 6, 98-105 (Exhibit 12);

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13. Cigudosa, J. C., Parsa, N. Z., Louie, D. C., Filippa, D. A., Jhanwar, S. C., Johansson, B., Mitelman, F., and Chaganti, R. S., Cytogenetic analysis of 363 consecutively ascertained diffuse large B-cell lymphomas, *Genes Chromosomes Cancer* (1999) 25, 123-133 (Exhibit 13);
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16. Dalla-Favera, R., Martinotti, S., Gallo, R. C., Erikson, J., and Croce, C. M., Translocation and rearrangements of the c-myc oncogene locus in human undifferentiated B-cell lymphomas, *Science*, (1983) 219, 963-967 (Exhibit 16);
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20. Dierlamm, J., Pittaluga, S., Wlodarska, I., Stul, M., Thomas, J., Boogaerts, M., Michaux, L., Driessen, A., Mecucci, C., Cassiman, J. J., and et al., Marginal zone B-cell lymphomas of different sites share similar cytogenetic and morphologic features, *Blood*, (1996) 87, 299-307 (Exhibit 20);
21. Dubin, G., Socolof, E., Frank, I., Friedman, H. M., Herpes simplex virus type 1 Fc receptor protects infected cells from antibody-dependent cellular cytotoxicity, *Journal of Virology* (1991) 65, 7046-7050 (Exhibit 21);
22. Dyomin, V. G., Palanisamy, N., Lloyd, K. O., Dyomina, K., Jhanwar, S. C., Houldsworth, J., and Chaganti, R. S., MUC1 is activated in a B-cell lymphoma by the t(1;14)(q21;q32) translocation and is rearranged and amplified in B-cell lymphoma subsets, *Blood*, (2000) 95, 2666-2671 (Exhibit 22);
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29. Gower, H. J., Barton, C. H., Elsom, V. L., Thompson, J.,
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34. Jernberg, H., Zech, L., and Nilsson, K., Cytogenetic studies on human myeloma cell lines, *Int. J. Cancer*, (1987) 40, 811-817 (**Exhibit 34**);

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55. Rao, P. H., Murty, V. V., Gaidano, G., Hauptschein, R., Dalla-Favera, R., and Chaganti, R. S., Subregional localization of 20 single-copy loci to chromosome 6 by fluorescence in situ hybridization, *Genomics*, (1993) 16, 426-430 (**Exhibit 55**);
56. Ravetch, J. V., and Lanier, L. L., Immune inhibitory

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60. Riley, J., Butler, R., Ogilvie, D., Finniear, R., Jenner, D., Powell, S., Anand, R., Smith, J. C., and Markham, A. F., A novel, rapid method for the isolation of terminal sequences from yeast artificial chromosome (YAC) clones, *Nucleic Acids Res.*, (1990) 18, 2887-2890 (**Exhibit 60**);
61. Ronchetti, D., Finelli, P., Richelda, R., Baldini, L., Rocchi, M., Viggiano, L., Cuneo, A., Bogni, S., Fabris, S., Lombardi, L., Maiolo, A. T., and Neri, A., Molecular analysis of 11q13 breakpoints in multiple myeloma, *Blood*, (1999) 93, 1330-1337 (**Exhibit 61**);
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63. Sawyer, J. R., Tricot, G., Mattox, S., Jagannath, S., and Barlogie, B., Jumping translocations of chromosome 1q in multiple myeloma: evidence for a mechanism involving decondensation of pericentromeric heterochromatin, *Blood*, (1998) 91, 1732-1741 (**Exhibit 63**);
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67. Swerdlow, S. H., Yang, W. I., Zukerberg, L. R., Harris, N. L., Arnold, A., Williams, M. E., Expression of cyclin D1 protein in centrocytic/mantle cell lymphomas with and without rearrangement of the BCL1/cyclin D1 gene, *Hum. Pathol.*, (1995) 26, 999-1004 (**Exhibit 67**);

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69. Taub, R., Kirsch, I., Morton, C., Lenoir, G., Swan, D., Tronick, S., Aaronson, S., Leder, P., Translocation of the c-myc gene into the immunoglobulin heavy chain locus in human Burkitt's lymphoma and murine plasmacytoma cells, *Proc. Natl. Acad. Sci. U.S.A.*, (1982) 79, 7837-7841 (**Exhibit 69**);
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75. Willis, T. G., Zalcberg, I. R., Coignet, L. J., Wlodarska, I., Stul, M., Jadayel, D. M., Bastard, C., Treleaven, J. G., Catovsky, D., Silva, M. L., and Dyer, M. J., Molecular cloning of translocation *tt(1;14)(q21;q32)* defines a novel gene (BCL9) at chromosome 1q21, *Blood*, (1998) 91, 1873-1881 (**Exhibit 75**);
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multiple myeloma, *Blood*, (1994) 83, 3654-3663 (**Exhibit 78**).

If a telephone interview would be of assistance in advancing prosecution of the subject application, applicant's undersigned attorneys invite the Examiner to telephone them at the number provided below.

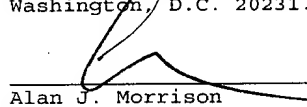
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Respectfully submitted,



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	Anand, R., Riley, J. H., Butler, R., Smith, J. C., and Markham, A. F., A 3.5 genome equivalent multi access YAC library: construction, characterization, screening and storage, <i>Nucleic Acids Res.</i> , (1990) 18, 1951-1956;
	Avet-Loiseau, H., Andree-Ashley, L. E., Moore, D., Mellerin, M. P., Feusner, J., Bataille, R., and Pallavicini, M. G., Molecular cytogenetic abnormalities in multiple myeloma and plasma cell leukemia measured using comparative genomic hybridization, <i>Genes Chromosomes Cancer</i> , (1997) 19, 124-133;
	Bakhshi, A., Jensen, J. P., Goldman, P., Wright, J. J., McBride, O. W., Epstein, A. L., and Korsmeyer, S. J., Cloning the chromosomal breakpoint of t(14;18) human lymphomas: clustering around JH on chromosome 14 and near a transcriptional unit on 18, <i>Cell</i> , (1985) 41, 899-906;
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DATE CONSIDERED

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 Applicant(s)
 Riccardo Dalla-Favera

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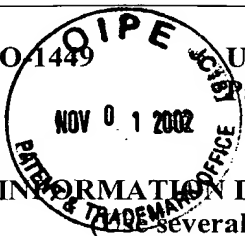
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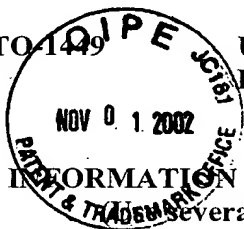
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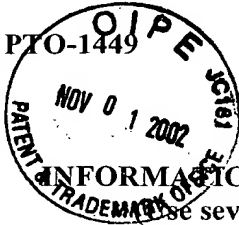
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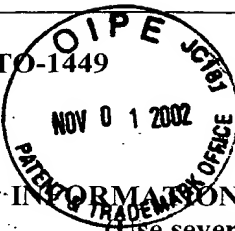
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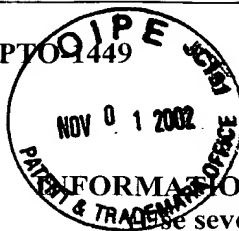
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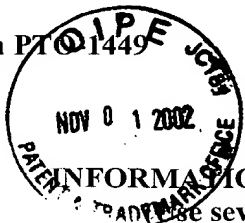
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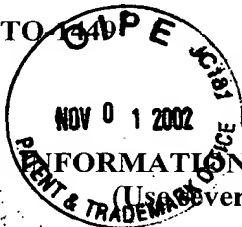
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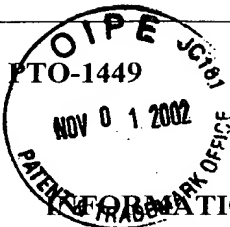
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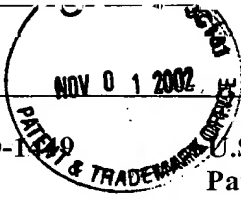
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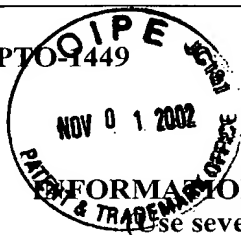
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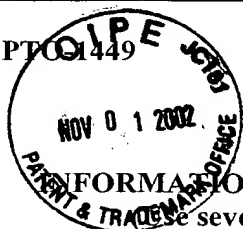
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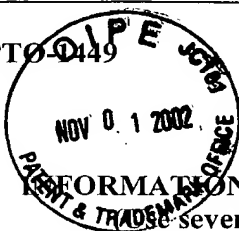
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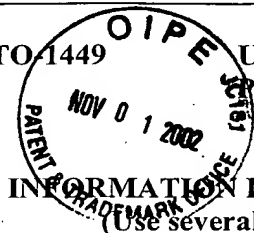
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